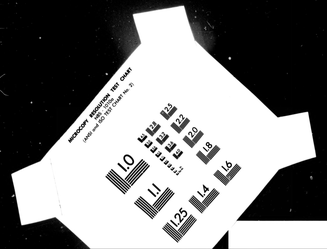
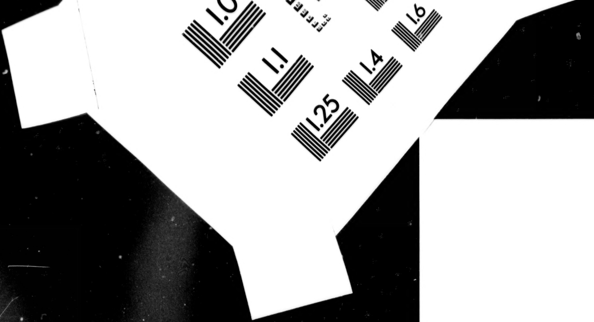
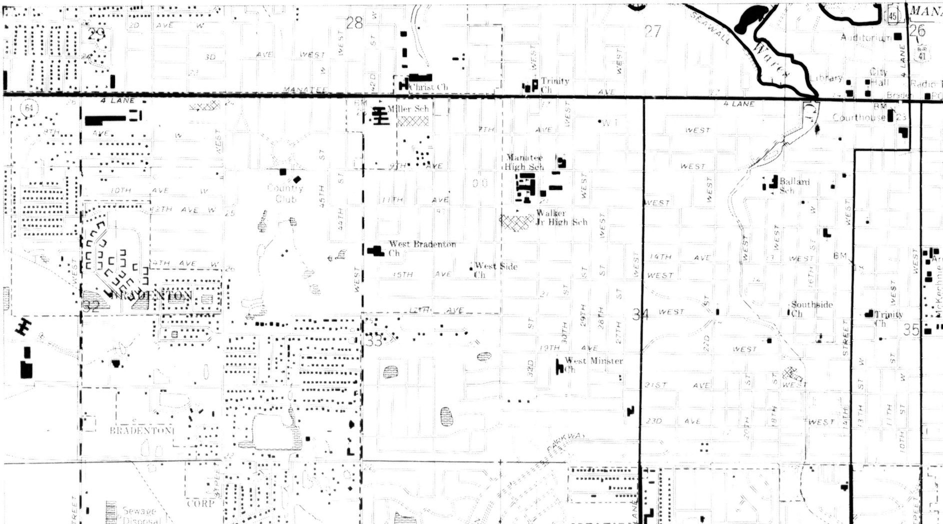


I 49.84/2 : 85 (15) map A 14


1.0
1.1
1.25
1.4
1.6

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

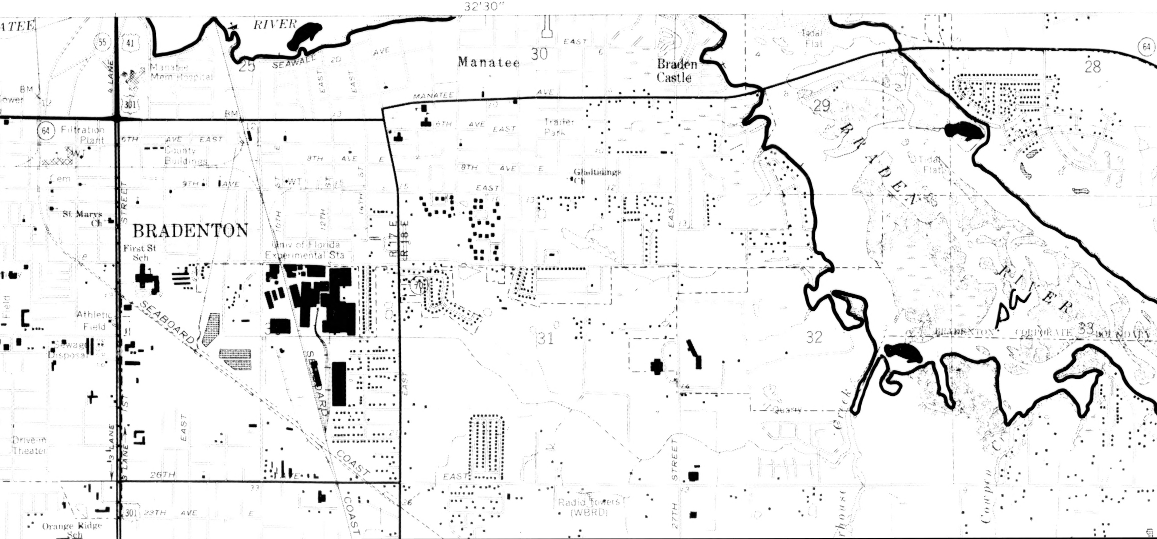
82°37'30"
27°30'


29
28
27
26
32
33
34
35
2D AVE W
3D AVE WEST
MANATEE
4 LANE
AVE
Christ Ch
Trinity Ch
Miller Sch
Manatee High Sch
Walker Jr High Sch
Country Club
10TH AVE W
12TH AVE W
14TH AVE W
15TH AVE
West Bradenton Ch
West Side Ch
BRADENTON
West Minster Ch
19TH AVE
21ST AVE
23D AVE
PARKWAY
SEAWALL
Wares Creek
Auditorium
Library
City Hall
Courthouse
BM
Ballard Sch
Southside Ch
Trinity Ch
McKechnie
Radio
4 LANE
WEST
STREET
Sewage Disposal
CORP
45TH ST
44TH ST
26
MANA

MAY 10 '88

STATE OF FLORIDA

BRADENTON QUADRANG
FLORIDA
7.5 MINUTE SERIES (TOPOGRA


32'30"
ATEE
RIVER
SEAWALL
Manatee Mem Hospital
Manatee
30
Braden Castle
28
29
MANATEE AVE
6TH AVE EAST
Trailer Park
Filtration Plant
County Buildings
8TH AVE E
9TH AVE
Gladtidings Ch
St Marys Ch
BRADENTON
First St Sch
Univ of Florida Experimental Sta
Tidal Flat
BRADEN RIVER
R 17 E
R 18 E
Athletic Field
Sewage Disposal
SEABOARD
COAST
31
32
33
BRADENTON CORPORATE BOUNDARY
Drive-in Theater
26TH
27TH STREET
Radio Towers (WBRD)
23TH AVE E
Orange Ridge Sch
Creek
Cowpen
301
41
55
64
70

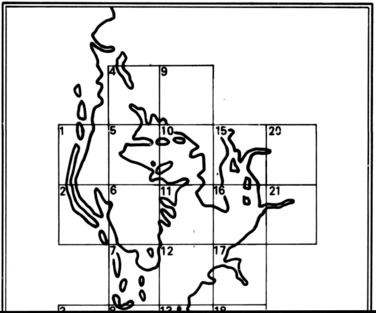
I 49.89/2:85(15) map A14

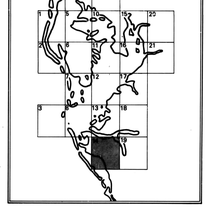
MAP A14

TAMPA BAY ENVIRONMENTAL ATLAS

BIOLOGICAL RESOURCES

BRADENTON


1
2
4
5
6
7
9
10
11
12
15
16
17
20
21



Scale 1:24,000

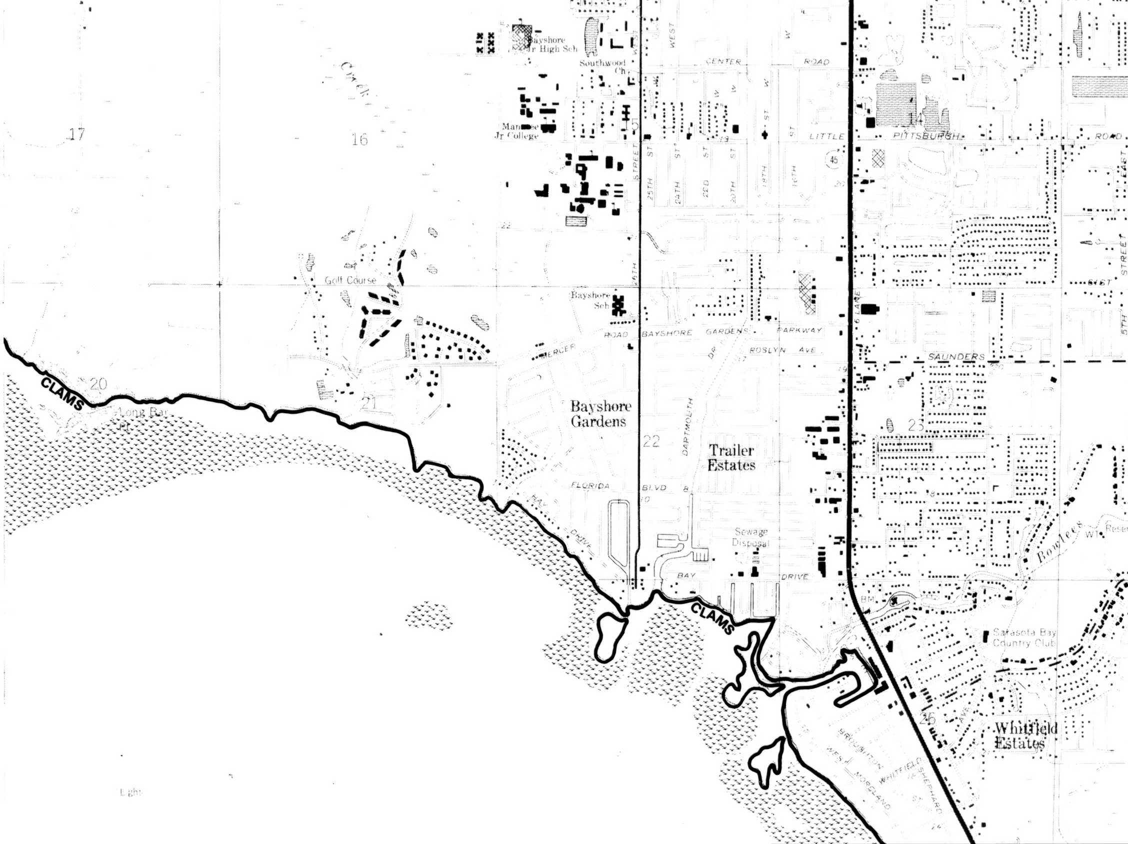
1984

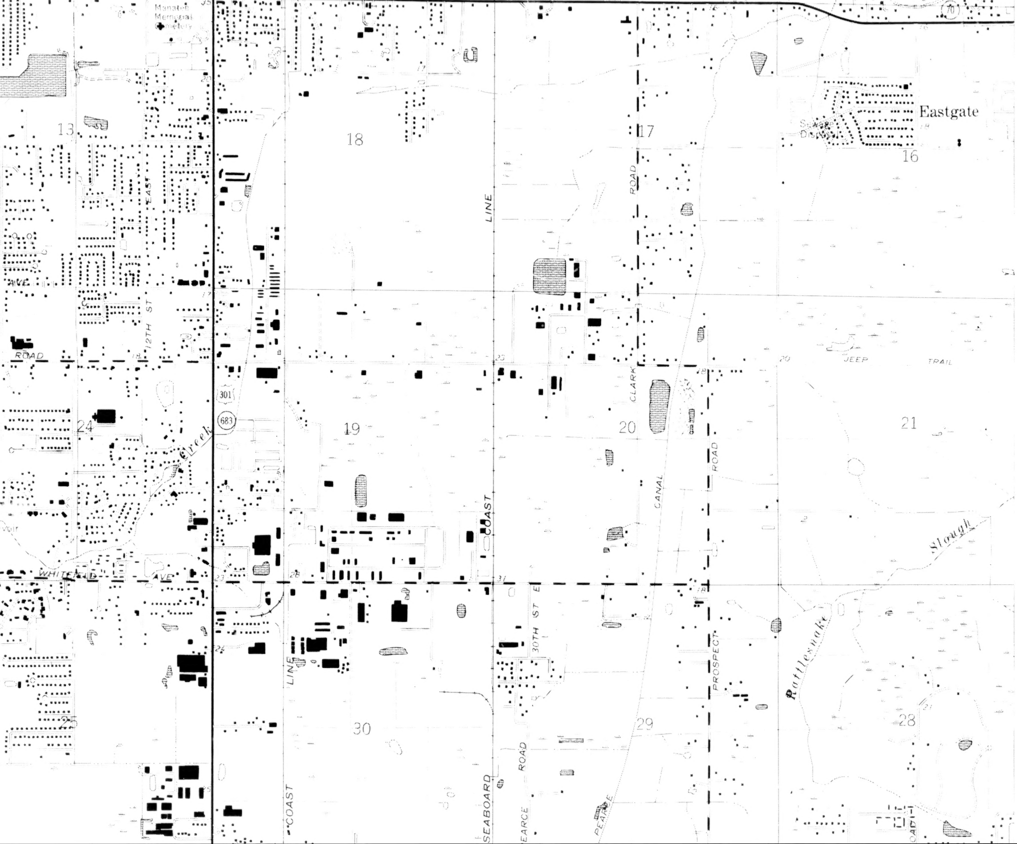
TOPICAL MAPS IN THIS ATLAS:

A. BIOLOGICAL RESOURCES
B. WATER RESOURCES

Produced by U.S. Fish and Wildlife Service
Projection and 1,000 meter grid, zone 17: Universal Transverse Mercator
10,000-foot grid ticks based on Florida coordinate system, east and west zones

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources


Bayshore
Jr High Sch
Southwood
Ch
Creek
17
16
Manatee
Jr College
WEST
CENTER
ROAD
LITTLE
PITTSBURGH
ROAD
14
45
25TH ST
24TH ST
22D ST
20TH ST
18TH ST
16TH ST
26TH STREET W
22
Golf Course
Bayshore
Sch
ROAD
BAYSHORE
GARDENS
PARKWAY
MERCER
ROSLYN AVE
DR
51ST
5TH STREET EAST
6 LANE
SAUNDERS
20
CLAMS
Long Bar
Pt
21
Bayshore
Gardens
22
DARTMOUTH
Trailer
Estates
23
FLORIDA
BLVD
BAY
DRIVE
Sewage
Disposal
BAY
DRIVE
CLAMS
BM
Bowlees
WT
Reser
Sarasota Bay
Country Club
26
AVE
Whitfield
Estates
BROUGHTON
WEST
MORGAND
WHITFIELD
SHEPHARD
ST
Light


Manatee Memorial Cemetery
70
13
18
17
16
Eastgate
Sewage Disposal
LINE
ROAD
EAST
12TH ST
AVE
ROAD
JEEP TRAIL
301
683
Creek
24
19
20
21
CLARK
ROAD
CANAL
COAST
Slough
WHITFIELD AVE
30TH ST E
LINE
PROSPECT
Rattlesnake
25
30
29
28
COAST
SEABOARD
ROAD
PEARCE
PEARCE

10,000-foot grid ticks based on Florida coordinate system, east and west zones

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources.

There are no maps A19, A20, A21 due to a lack of data.

LEGEND

SHELLFISH HARVEST AREA
(Florida Dept. of Natural Resources)

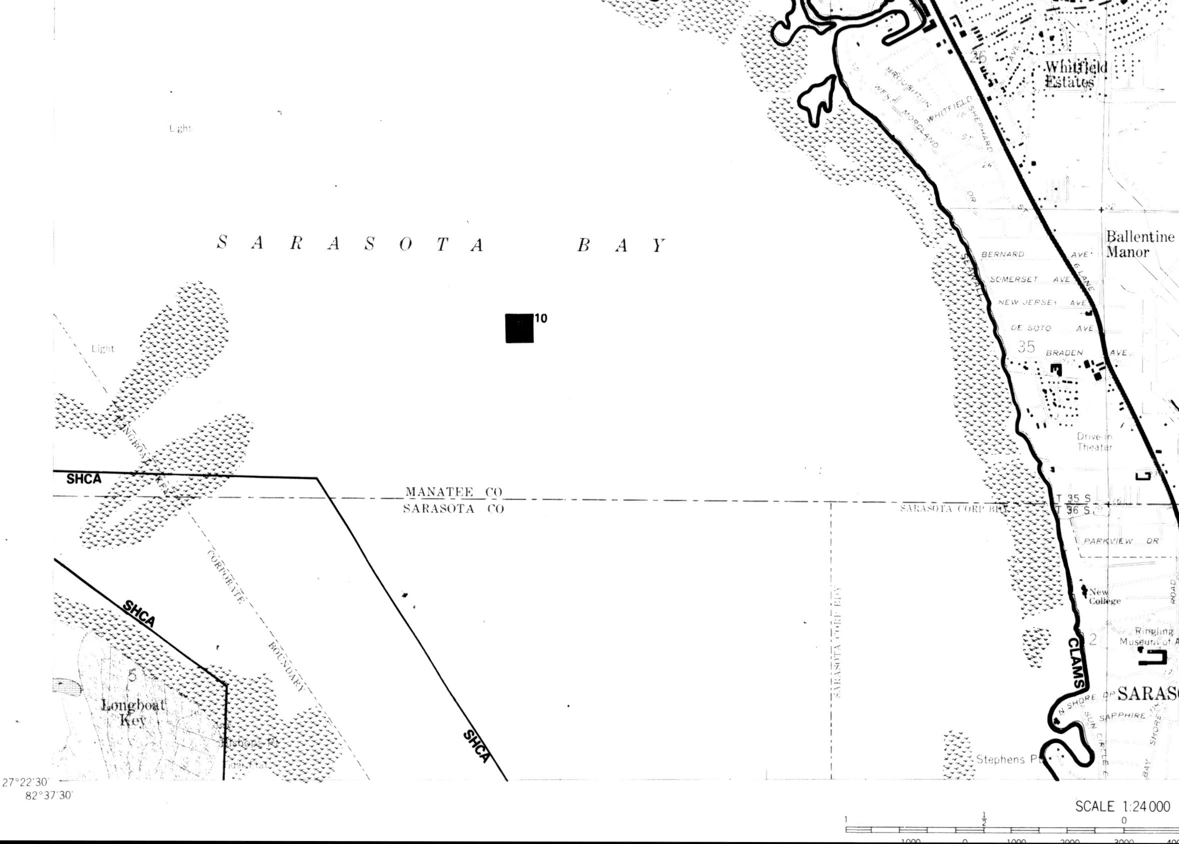
SHA	Shellfish Harvest Approved
SHCA	Shellfish Harvest Conditionally Approved

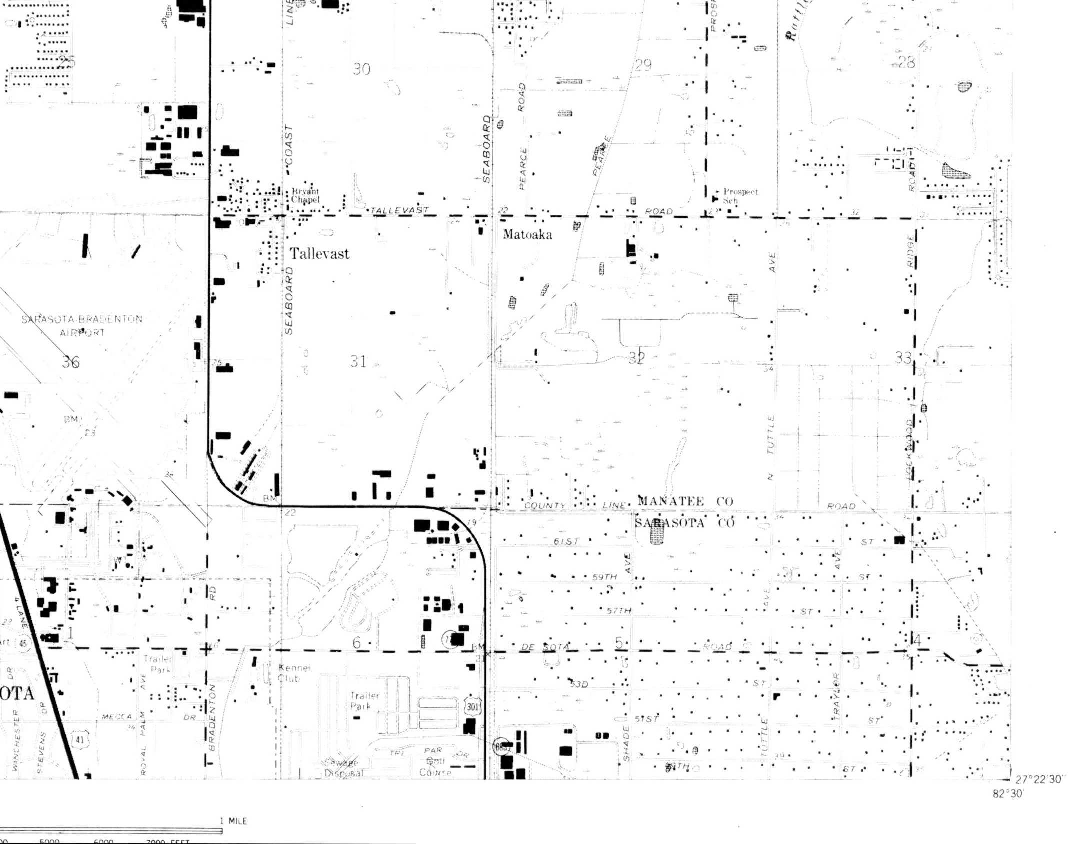
NOTE: Due to Dept. of Natural Resources (DNR) water quality standards all other estuarine areas are prohibited or unclassified as to shellfish harvest status and are officially unapproved. For further info. on status of harvest areas contact DNR - Shellfish Environmental Assessment Section.

Oys-1	Public Oyster Bed
Oys-2	Private Oyster Bed (Lease)
CLAMS	Clam Bed

FINFISH SPAWNING, NURSERY AND HARVEST AREAS
(Recreational Hook and Line Fishing)

SPECIES #	FINFISH	SPAWNING													NURSERY AREA[1]	MAJOR NURSERY HABITATS							AREA OF ADULT ABUNDANCE[1]	MAJOR ADULT HABITATS						MIGRATION TYPE[2]
	CATEGORY Common Name	LOCATION[1]	SEASON J		M		M		J		S		N			Seagrass	Mangrove	Saltmarsh	Beach	Coral Reef	Artificial Reef	Open Water		Seagrass	Mangrove	Beach	Coral Reef	Artificial Reef	Open Water	
	ESTUARINE DEPENDENT FISHES																													
1	Red Drum	C	■	■							■	■	■	■	E	●	●	●					E	●	●	●				2
2	Spotted Seatrout	E			■	■	■	■	■	■	■	■			E	●	●	●					E	●	●					2
3	Snook	C					■	■	■						E	●	●	●					E	●	●					2


SARASOTA BAY
Light
Light
10
Whitfield Estates
Ballentine Manor
BROUGHTON
WEST
MORGLAND
WHITFIELD
SHEPHARD
ST
DR
26
24
BERNARD AVE
SOMERSET AVE
NEW JERSEY AVE
DE SOTO AVE
BRADEN AVE
6 LANE
SEAWALL
35
Drive-in Theater
SHCA
SHCA
SHCA
MANATEE CO
SARASOTA CO
SARASOTA CORP BDY
SARASOTA CORP BDY
T 35 S
T 36 S
PARKVIEW DR
CORPORATE BOUNDARY
LONGBOAT KEY
5
Longboat Key
New College
Ringling Museum of A
2
CLAMS
N SHORE DR
SARAS
SUN CIRCLE
SAPPHIRE
SHORE
BAY
ROAD
Stephens P
27°22'30"
82°37'30"
SCALE 1:24 000
1
½
0
1000
0
1000
2000
3000
400


25
30
29
28
SEABOARD
COAST
LINE
SEABOARD
PEARCE
ROAD
PEARCE
PROSPECT
ROAD
Bryant Chapel
Prospect Sch
TALLEVAST
ROAD
Matoaka
Tallevast
SARASOTA-BRADENTON AIRPORT
36
31
32
33
AVE
RIDGE
TUTTLE
LOCKWOOD
BM
COUNTY
LINE
MANATEE CO
SARASOTA CO
ROAD
61ST
59TH
57TH
ST
AVE
W
RD
4 LANE
1
45
6
5
4
DE SOTA
ROAD
Trailer Park
Kennel Club
Trailer Park
301
683
53D
51ST
49TH
OTA
DR
MECCA
DR
WINCHESTER
STEVENS
ROYAL PALM
AVE
BRADENTON
41
SHADE
TUTTLE
TRAYLOR
TEE
PAR
DR
Golf Course
Sewage Disposal
27°22'30"
82°30'
1 MILE
5000
6000
7000 FEET

(Recreational Hook and Line Fishing)

SPECIES #	FINFISH CATEGORY Common Name	SPAWNING													NURSERY AREA[1]	MAJOR NURSERY HABITATS							AREA OF ADULT ABUNDANCE[1]	MAJOR ADULT HABITATS						MIGRATION TYPE[2]
		LOCATION[1]	SEASON													Seagrass	Mangrove	Saltmarsh	Beach	Coral Reef	Artificial Reef	Open Water		Seagrass	Mangrove	Beach	Coral Reef	Artificial Reef	Open Water	
			J		M		M		J		S		N																	
	ESTUARINE DEPENDENT FISHES																													
1	Red Drum	C	■	■							■	■	■	■	E	●	●	●					E	●	●	●				2
2	Spotted Seatrout	E			■	■	■	■	■	■	■	■			E	●	●	●					E	●	●					2
3	Snook	C					■	■	■						E	●	●	●					E	●	●					2
4	Sheepshead	C			■	■	■								C	●							C-E			●		●		1
5	Southern Flounder	C									■	■	■	■	C-E	●			●				C-E	●		⊘				2
6	Florida Pompano	CS				■	■	■	■	■	■	■			C-E				●				C-E			●			●	3
7	Striped Mullet	CS	■									■	■	■	E	●	●	●					E	●	●	●				3
8	Gulf Menhaden	C	■	■	■								■	■	E	●	●	●					C-E	●		●			●	3
9	Spanish Sardine	C						■	■	■	■				E	●	●	●					C-E	●		●			●	3
10	Black Drum	C	■	■	■	■	■						■	■	E	●	●	●					E	●	●	●				1
	REEF FISHES																													
11	Red Grouper	CS			■	■	■	■							CS-C	●				●	●		CS				●	●		2
12	Jewfish	CS							■	■					CS-C	●				●	●		CS-C				●	●		2
13	Gag Grouper	CS	■	■	■	■								■	CS-C	●				●	●		CS-C				●	●		2
14	Scamp	CS			■	■									CS	●				●	●		CS				●	●		2
15	Red Snapper	CS							■	■	■	■			CS-C	●				●	●		CS-C				●	●		2
16	Mangrove Snapper	CS				■	■	■	■	■					C-E	●	●						C-E				●	●		2
	COASTAL PELAGIC FISHES																													
17	King Mackerel	OCS					■	■	■	■	■				CS							●	CS-C				●	●	●	4
18	Spanish Mackerel	CS					■	■	■	■	■				CS							●	CS-C				●	●	●	4

[1] KEY:

E — Estuarine
C — Coastal
CS — Continental Shelf
OCS — Outer Continental Shelf

[2] MIGRATION TYPE:

1 — Residentially Restricted
2 — Random Residential Range
3 — Restricted Migration
4 — Extensive Migration

COLONIAL BIRD NESTING SITE *

Number appearing with symbol indicates colony sites. Colony sites and species - composition data are included in the narrative.

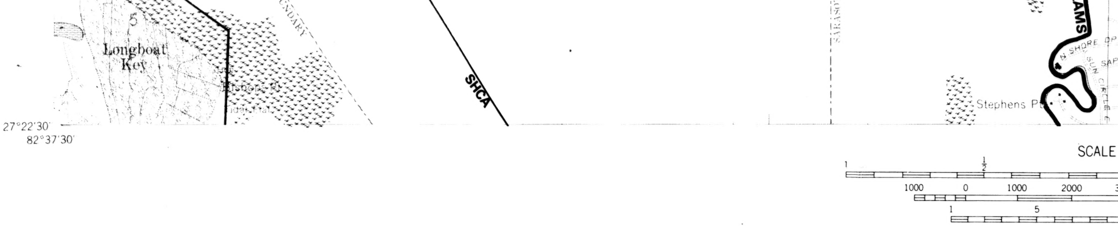
Shorebird

Wading Bird

Brown Pelican

WEST INDIAN MANATEE HABITAT

MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)
1.0
1.1


5
Longboat Key
Bishops Pt
SHCA
Stephens Pt
27°22'30'
82°37'30'
SCALE
1
½
1000
0
1000
2000
1
5

THE TAMPA BAY ENVIRONMENTAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES NATIONAL COASTAL ECOSYSTEMS TEAM (FWS/OBS) FOR COASTAL PLANNERS, DECISION MAKERS AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES A MAJOR PORTION OF THE COASTAL COUNTIES OF PINELLAS, HILLSBOROUGH, MANATEE, AND A SMALL PORTION OF SARASOTA. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION:

SHELLFISH HARVEST AREAS: Shellfish Harvest Area Maps, Dept. of Natural Resources, 1982.

PUBLIC & PRIVATE OYSTER BEDS: Cooperative Gulf of Mexico Estuarine Inventory and Study, Florida, McNulty, Lindall and Sykes, 1972.

CLAMS: Personal Communication, Discussion of Distribution Clams in Tampa Bay and Adjacent Brackish Waters, Mr. L. Tracy Three T's Clam Company, 1983 Mike Sprague, Draft Maps, Department of Natural Resources, 1984

SCALLOP BEDS: Personal Communication, Mr Bill Lyons Dept. of Natural Resources, Marine Research Laboratory, 1982

FINFISH SPAWNING, NURSERY & HARVEST AREAS: Florida's Fishing Grounds, Moe, 1970.

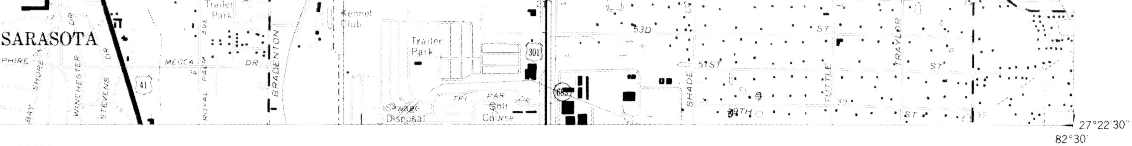
BIRD NESTING SITES: Florida Atlas of Breeding Sites for Herons and Their Allies: 1976-78, Nesbitt, S.A., Ogden, J.C., Kale II, H.W., et.al. U.S Fish and Wildlife Service, 1982. Personal Communication, Maps and Data, Dr H.W. Kale II, Florida Audubon Society, 1982

MANATEE HABITAT: Boaters guide to Manatees, the gentle giants, Florida Marine Patrol, 1980.

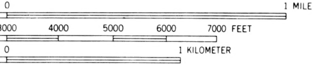
SEAGRASS BEDS: Tampa Bay Seagrass Maps, 1:10,000 and 1:24,000 Scales, Mangrove Systems. Inc 1980 National Wetlands Inventory Maps, 1:24,000 Scale, U.S. Fish and Wildlife Service, 1983.

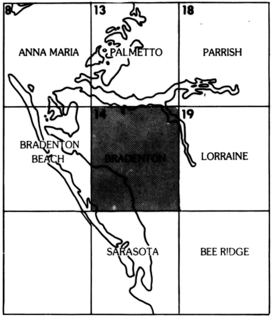
ARTIFICAL REEFS: Computer Printout of Florida Artifical Reefs, U.S. Army Corps of Engineers, 1981. Recreational Use Reefs in Florida: Artifical and Natural, Florida Sea Grant Program, 1979.

FOR COMPLETE REFERENCE SEE MAP NARRATIVE


SARASOTA
PHIRE
SHORE
BAY
DR
WINCHESTER
STEVENS
DR
41
MECCA
DR
24
ROYAL PALM AVE
Trailer Park
BRADENTON
Kennel Club
Trailer Park
301
Sewage Disposal
TRI PAR DR
Golf Course
683
SHADE
53D
51ST
TUTTLE
TRAYLOR
ST
ST
49TH
ST
27°22'30"
82°30'

1:24 000


0
1 MILE
3000
4000
5000
6000
7000 FEET
0
1 KILOMETER


8
ANNA MARIA
13
PALMETTO
18
PARRISH
14
BRADENTON BEACH
BRADENTON
19
LORRAINE
SARASOTA
BEE RIDGE

narrative.

Shorebird

Wading Bird

Brown Pelican

WEST INDIAN MANATEE HABITAT

STATE MANATEE SANCTUARY

▨ SEAGRASS BEDS

■ ARTIFICAL REEF*

(Permitted by Florida Dept. of Environmental Regulation)

Numbers next to reefs refer to composition data in narrative

Symbols appearing with numbers are described more fully in the narrative.

MICROFILMED FROM
BEST AVAILABLE COPY

MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)

RESOLUTION TEST CHART
1.0
1.1
1.25
1.4
1.6

RESOLUTION TEST CHART
1.0
1.1
1.25
1.4
1.6